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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/671,066		09/26/2003	Matthew Alan Michel	28,476	28,476 5865	
21839	7590	07/30/2004		EXAMINER		
		SWECKER & M	HAYES, BRET C			
POST OFFIC ALEXANDI		A 22313-1404		ART UNIT	PAPER NUMBER	
				3644		
				DATE MAILED: 07/30/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	10/671,066	MICHEL, MATTHI	EW ALAM		
Office Action Summary	Examiner	Art Unit			
	Bret C Hayes	3644			
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence ad	ldress		
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a repl - If NO period for reply is specified above, the maximum statutory of - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from b. cause the application to become ABANDONE	nely filed s will be considered timel the mailing date of this c D (35 U.S.C. § 133).	ly. communication.		
Status					
1) Responsive to communication(s) filed on	•				
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	—· s action is non-final.				
3) Since this application is in condition for allowar		secution as to the	e merits is		
closed in accordance with the practice under E			,		
Disposition of Claims					
4)⊠ Claim(s) <u>1-6 and 8-14</u> is/are pending in the ap	nlication				
4a) Of the above claim(s) is/are withdraw					
5) Claim(s) is/are allowed.	with from consideration.				
6) Claim(s) <u>1-6 and 8-14</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/o	r election requirement				
are subject to restriction and/o	r election requirement.				
Application Papers					
9) The specification is objected to by the Examine	er.				
10)⊠ The drawing(s) filed on <u>26 September 2003</u> is/a		ted to by the Exar	miner.		
Applicant may not request that any objection to the	-				
Replacement drawing sheet(s) including the correct	•	` ,	FR 1.121(d).		
11) The oath or declaration is objected to by the Ex					
Priority under 35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign	priority under 35 LLS C & 110(a)	(d) or (f)			
a) All b) Some * c) None of:	priority under 33 0.3.C. § 119(a)	-(a) or (i).			
1. Certified copies of the priority documents	s have been received				
2. Certified copies of the priority documents		on No			
			04-		
3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a list	. , , ,	_			
oce the attached detailed Office action for a list	of the certified copies not receive	a.			
,					
Attachment(s)					
1) Notice of References Cited (PTO-892)	4) Interview Summary	(PTO_413)			
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	te			
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)		atent Application (PTC	)-152)		
Paper No(s)/Mail Date	6)				
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)  Office Ac	etion Summary Par	rt of Paper No./Mail Da	ate 20040711		

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#### **DETAILED ACTION**

### Claim Objections

- 1. Claim 10 is objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim. Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form. Specifically, claim 10 depends upon claim 9, which depends upon claim 8. Other than the dependencies, the claims are identical.
- 2. Claims 3 and 14 are objected to because of the following informalities: (claim 3) line 4, "said last-mentioned means", should positively recite that means, such as --means for opening--; and (claim 14) line 2, "each row of projectiles" should be --each of the plural projectiles in mutually parallel relation--, for clarity. Appropriate correction is required.

#### **Drawings**

3. While no formal objection to the drawings is being made, examiner suggests replacing Figs. 6, 11 - 19 and 22 with actual drawings, as the details of what appear to be photocopies of photographs of the claimed invention are not as clear as drawings would be.

# Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter, which the applicant regards as his invention.

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5. Claims 8 - 14 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for

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failing to particularly point out and distinctly claim the subject matter which applicant regards as

the invention.

6. Regarding claims 8, 11 and 12, the word "means" is preceded by the word(s) "bellows,

collar, cable and spool" in an attempt to use a "means" clause to recite a claim element as a

means for performing a specified function. However, since no function is specified by the

word(s) preceding "means," it is impossible to determine the equivalents of the element, as

required by 35 U.S.C. 112, sixth paragraph. See Ex parte Klumb, 159 USPO 694 (Bd. App.

1967).

7. Further, claim 8 recites the limitation "said spool elements" in line 6. There is

insufficient antecedent basis for this limitation in the claim.

8. Further, claim 11 recites the limitation "said spool means" in line 10. There is

insufficient antecedent basis for this limitation in the claim.

9. Further, claim 12 recites the limitation "said spool means" in line 3. There is insufficient

antecedent basis for this limitation in the claim.

10. Any unspecified claim is rejected as being dependent upon a rejected base claim.

Claim Rejections - 35 USC § 102

11. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the

basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on

sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1 and 3 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent No. 12. 5,094,170 to Raynaud et al. (Raynaud).

- Re claim 1, Raynaud discloses the invention as claimed including a projectile 13. dispenser, Fig. 5D, for example, having at least one expandable bellows 38, at least one spool 84 for holding elongated projectiles 86 in unidirectional parallel relation, and at least one collar 36; means for releasing, set forth at col. 5, line 37 (5:37), the at least one spool 84 in predetermined time relation from the dispenser, and means for releasing 88 the elongated projectiles 86 from the at least one spool 84 in specific sequence following separation from the dispenser.
- 14. Re – claim 3, Raynaud discloses in an airborne projectile dispenser, the improvement comprising: at least one spool 84 for supporting a plurality of projectiles 86 in substantially parallel relation, a collar 36 retaining the projectiles 86 within the at least one spool 84, and means for opening, 5:37, the collar 36 to release the projectiles 86, the means for opening, 5:37, including means for timing the period of release of said collar.

#### Claim Rejections - 35 USC § 103

- 15. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- Claims 2 and 4-10 are rejected under 35 U.S.C. 103(a) as being unpatentable over 16. Raynaud.

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17. Re – claim 2, Raynaud discloses the claimed invention except for the expandable bellows 38 having an axis of expansion along a principal longitudinal axis. It would have been obvious to one having ordinary skill in the art at the time the invention was made to orient the expandable bellows to have an axis of expansion along a principal longitudinal axis, absent any showing to the contrary, as a matter of obvious design choice, since it has been held that rearranging parts of an invention involves only routine skill in the art. *In re Japiske*, 86 USPQ 70.

- 18. Re claim 4, Raynaud discloses the claimed invention including a strap 36 surrounding armaments 10 and means for breaking 38 the strap 36 except for timed means for cutting. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include timed means for cutting, since it was known in the art that timing and delay functions are necessary for accurate deployment.
- 19. Re claim 5, Raynaud discloses the claimed invention except for the collars being of variable radial diameter relative to each other. It would have been an obvious matter of design choice to have the collars be of variable radial diameter relative to each other, since such a modification would have involved a mere change in the size of a component. A change in size is generally recognized as being within the level of ordinary skill in the art. *In re Rose*, 105 USPQ 237 (CCPA 1955).
- 20. Re claim 6, Raynaud discloses the claimed invention except for the means for cutting including a capacitively powered circuit board. It would have been obvious to one having ordinary skill in the art at the time the invention was made to have the means for cutting include a capacitively powered circuit board, since capacitively powered circuits were known in the art to be used with cutting means.

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21. Re – claim 8, Raynaud discloses the claimed invention as applied above, except for timing means for controlling expansion of the bellows. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include timing means for controlling, since it was known in the art that timing and delay functions are necessary for accurate deployment.

22. Re – claim 9 (and 10), Raynaud discloses the claimed invention as applied above, except for means for timing the ignition of the gas-powered means. It would have been obvious to one having ordinary skill in the art at the time the invention was made to include means for timing the ignition, since it was known in the art that timing and delay functions are necessary for accurate deployment.

## Allowable Subject Matter

- 23. Claim 11 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.
- 24. Claims 12 14 would be allowable if rewritten to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action and to include all of the limitations of the base claim and any intervening claims.
- 25. The following is a statement of reasons for the indication of allowable subject matter: the prior art of record neither discloses nor fairly teaches the recited limitations of the claimed invention including, but not limited to: the collars being of variable radial diameter relative to each other offsetting laterally individual projectiles with respect to corresponding projectiles in other spools.

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26. This statement is not intended to necessarily state all the reasons for allowance or all the

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details why the claims are allowed and has not been written to specifically or impliedly state that

all the reasons for allowance are set forth (MPEP 1302.14).

Conclusion

Any inquiry concerning this communication should be directed to Bret Hayes at

telephone number (703) 306 – 0553. The examiner can normally be reached Monday through

Friday from 5:30 am to 3:00 pm, Eastern Standard Time.

If attempts to contact the examiner by telephone are unsuccessful, the examiner's

supervisor, Michael Carone, can be reached at (703) 306 – 4198. The fax number is (703) 872 –

9306.

bh

7/27/04